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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/926,734	03/18/2002	Douglas Payne	108347-00014	2065

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EXAMINER

ASSAF, FAYEZ G

ART UNIT PAPER NUMBER

2872

DATE MAILED: 06/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/926,734

Applicant(s)

PAYNE ET AL.

Examiner

Fayez G. Assaf

Art Unit

2872

-- **Th MAILING DATE of this communication appears on the cover sheet with the correspondence address --**
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 March 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-9 is/are allowed.
- 6) ☒ Claim(s) 10 and 11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- ☐ Interview Summary (PTO-413) Paper No(s) _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other:

Art Unit: 2872

DETAILED ACTION

Priority

Acknowledgment is made of Applicant's claim for foreign priority to United Kingdom application No. 9913432.2 filed on 06/09/1999 under 35 U.S.C. 119(a)-(d). As such, the 102 rejection, in the previous Office Action mailed on 12/20/2002, should have been under 35 U.S.C. § 102 (a). The Examiner thanks the Applicant for the correction. Additionally, the amended claims in the PCT application ^{have} ~~has~~ been examined in the instant Office Action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 10 and 11 are rejected under 35 U.S.C. 102(a) as being anticipated by Brown et al. (GB 2330471 A).

Brown discloses a holographic display comprising, a light source (16 of Fig. 4 or Fig. 6), an Electrically Addressable Spatial Light Modulator (EASLM) in the path of the light source

Art Unit: 2872

(18 of Fig. 4 or Fig. 6) and arranged in use to display successively a set of sub-holograms which together correspond to a holographic image, light guiding means (22 of 28 of Fig. 4, or 32 of Fig. 6) arranged to guide modulated light output from the EASLM such that the sub-holograms are displayed successively in respective tiled regions of an EASLM projection surface (line 17 of Page 7 to line 6 of Page 8), and an array of lenses (22 of Fig. 4 or Fig. 6) disposed on the output side of the EASLM projection plane, the lenses of the array aligned with respective tiled regions (See Fig. 2, Fig. 4 and Fig. 6).

Regarding claim 11, Brown discloses a plurality of displays (A-I of Fig. 9), which are combined to enable a holographic image to be displayed with a large number of pixels.

Response to Arguments

Applicant's arguments filed 3/20/2003 have been fully considered but they are not persuasive.

Regarding claim 10, the Applicant argues that prior art fails to disclose or suggest the structure of the claims invention. In particular, the Applicant argues that "the source of coherent light is arranged to illuminate the EASLM with an angle of incidence which depends upon the spatial position within the hologram of a sub-hologram being displayed, the angle

Art Unit: 2872

being in synchronization with the sub-hologram updated rate of the EASLM." The Examiner notes that such features are not present in claim 10. As such, claim 10 still stands rejected as set forth above.

Allowable Subject Matter

Claims 1-9 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest the source of coherent light is arranged to illuminate the EASLM with an angle of incidence which depends upon the spatial position within the hologram of a sub-hologram being displayed, the angle being in synchronization with the sub-hologram updated rate of the EASLM as set forth in the claimed combination.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fayez G. Assaf whose telephone number is (703) 306-5526. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cassandra Spyrou can be reached on (703) 308-1687. The fax phone numbers for the

Application/Control Number: 09/926,734

Page 5

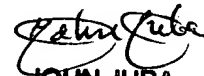
Art Unit: 2872

organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Fayez Assaf
June 1, 2003



JOHN JUBA
PRIMARY EXAMINER